
Subject: Re: matching 'C' Data Types?

Posted by [joseph.b.gurman](#) on Sun, 22 Oct 1995 07:00:00 GMT

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In article <4692eu\$1to@hammer.msfc.nasa.gov>, mallozzi@ssl.msfc.nasa.gov wrote:

>> I seem to be having a problem matching a few of the C data

>> types, specifically unsigned long and unsigned short.

>

> C datatype sizes:

>

> short 2 bytes

> int 4

> float 4

> long 4

> double 8

Note that this is platform-dependent; e.g., DEC Alphas (and I assume 64-bit MIPS

machines as well) would have 8-byte longs and 16-byte(?) doubles.

>

> IDL datatype sizes:

>

> byte 1 byte

> integer 2

> float 4

> long 4

> double 8

>

Note also that (1) the byte data type is the only unsigned data type in IDL, and (2) that IDL preserves the above across platforms (whether this is good or bad probably depends on your application). Frankly, I hope it changes as SGI, HP, and others finally move to 64-bit OS's.

> Pretty sure these are correct. I was doing exactly what you are doing

> with c and IDL, but it was quite awhile ago...

Joe Gurman

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| No time to be witty; sorry |
